

CLIMATOLOGICAL DATA FOR NOVEMBER, 1911.

DISTRICT NO. 10, GREAT BASIN.

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GENERAL SUMMARY.

The notable feature of the weather for November, 1911, was the low temperatures that prevailed for the greater portion of the month. At some places the mean monthly temperature was the lowest of record. In this particular the weather was in marked contrast to that of November, 1910, when the temperature averaged almost as much above normal as it was below during the present month. The cold weather interfered considerably with farming operation, and in some sections sugar beets were frozen in the ground.

The precipitation averaged below normal, and about the same as that of November last year. The snow cover in the Nevada area was light at the end of the month, and this was also true for the Utah area, except in the mountains, where there was from 1 to 3 feet.

The average number of rainy days was 5; clear days, 16; partly cloudy days, 6; and cloudy days, 8.

TEMPERATURE.

The mean temperature for the district averaged 34.3° , which is about 4° below normal, considering only the records of the older stations. The temperature chart shows that the lowest means occurred in Idaho, Wyoming, in the mountainous districts of the Utah area, and in the northeastern portion of Nevada. Every station but one reported monthly mean temperatures below normal. The greatest minus departures occurred in the Utah, Idaho, and Wyoming areas. The lowest mean temperature was 22.2° at Border, Wyo., which was 6.8° below normal; the highest was 46.8° at Jean, Nev.; the only other means above 40° were those of Lemay and Midlake near and on Great Salt Lake and of Lahontan and Lewer's Ranch in Nevada.

The month began with nearly normal temperatures in all portions of the district, and so continued during the first decade. On the 10th the temperatures dropped sharply over the whole district. The weather chart for the morning of the 10th showed generally low pressure over the entire West, with the center of depression over western Wyoming. During the next 24 hours this condition moved rapidly to the east, and was followed by an area of high pressure, which on the morning of the 11th covered the entire northwest, attended by temperatures ranging from 10° to 15° below the seasonal

averages. Temperatures fell lower at most places on the 12th, but on the 13th the weather moderated, and nearly normal conditions were attained by the 15th. After this date colder weather ensued, which continued until the end of the month.

The lowest temperature for the month was -16° on the 10th at Scipio, Utah. The highest there on that date was 57° , making the daily range 73° , which was the greatest daily range for the district.

At Salt Lake City, Utah, the thermograph trace of the 10th showed that the mercury attained its highest mark, 57° , at 1.30 p. m., reaching 24° at midnight, 16° on the morning of the 11th, and 13° on the 12th. At Scipio the observations are made at 6 p. m., and as the maximum temperature probably occurred about 1 p. m. there was a range of 73° within 5 or 6 hours.

An examination of the reports from other stations reveal like temperature conditions for the 10th and 11th. Most of the observers take their thermometer readings at 6 p. m. and at that time also record the current temperatures. A study of these temperatures show that the rapid fall of the mercury observed at Salt Lake City and Scipio was general throughout Utah.

PRECIPITATION.

The monthly precipitation averaged 0.81 inch, which is about 0.26 inch below normal. The heavier amounts fell in the extreme eastern portion of the district and in the lake region in western Nevada and eastern California, where 2 inches or more occurred at a number of stations. In western Utah and in most of Nevada very small amounts fell, 9 stations reporting no precipitation or only a trace.

The first 4 days of the month were fair. Precipitation began on the 4th in Utah, Idaho, and Wyoming and on the 5th in Oregon, and continued until the 16th or 17th at most places in these States. In the remainder of the district precipitation began on the 7th and 8th and continued until the 10th, and more occurred on the 15th and 16th. The remainder of the month was fair, with the exception of light precipitation on the 26th, at many stations in the Utah area.

The greatest monthly amount was 3.69 inches at McKinney, Cal. The greatest 24-hour amount was 1.80 inches at Deer Park, Cal., on the 10th.

TABLE 1.—Climatological data for November, 1911. District No. 10, Great Basin.

TABLE 1.—Climatological data for November, 1911. District No. 10—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Oregon.</i>																				
Burns.....	Harney.....	4,157	20			65	3	- 11	11	52	0.41		0.33	0.5	3	8	10	12	nw.	J. C. Welcome, Jr.
Cliff.....	Lake.....	4,300	4	33.2		58	3	- 14	11†	36	0.14		0.14	0.2	1	17*	4*	8*	w.	John C. Green.
Paisley.....	do.....	4,500	8	37.8															E. C. Woodward.	
<i>California.</i>																				
Tahoe.....	Placer.....	6,240	1	34.2		56	5	- 1	11	33	1.79		0.80	12.0	4	22	4	4	w.	R. M. Watson.
Truckee.....	Nevada.....	5,819	40	33.0	- 3.5	60	6	- 6	10	44	0.60	- 1.72	0.60	6.0	1	20	7	3	se.	Southern Pacific Co.
<i>Nevada.</i>																				
Austin.....	Lander.....	6,594	22	36.9	- 1.8	61	13	8	28	47	0.12	- 0.51	0.11	1.2	2	23	0	7	n.	F. O. Boe.
Battle Mountain.....	do.....	4,843	40	33.1	- 5.6	62	18	1	23	51	0.20	- 0.30	0.20	2.0	1	23	5	2	...	Southern Pacific Co.
Beowawe.....	do.....	4,905	40	37.2	+ 0.3	73	15†	1	26	57	0.02	- 0.54	0.02	0.2	1	22	5	3	w.	Do.
Carlin.....	Elko.....	5,222	40	32.4	- 1.1	68	1†	- 5	27	57					1	27	0	3	...	Do.
Carson Dam.....	Churchill.....	4,032	4	38.4		63	5†	10	12	39	T.		T.	0	0	21	6	3	e.	U. S. Reclamation Service.
Cherry Creek.....	White Pine.....	6,450	3	34.5		58	20	1	12	42	0.58		0.31	5.0	3	18	9	3	w.	J. H. Leishman.
Clover Valley.....	Esmeralda.....	5,750	4	38.8		61	7	14	12	38	0.10		0.10	0	1	26	4	0	nw.	I. F. Wiseman.
Dutton.....	Elko.....	5,100	3																A. Booth.	
Elko.....	do.....	5,432	40																Golconda Cattle Co.	
Ely.....	White Pine.....	6,421	20																E. J. Clark.	
Eureka.....	Eureka.....	6,500	8	36.0		59	3†	4	12†	43	0.18		0.10	3.5	2	14	7	9	n.	Rev. G. C. Hunting.
Fallon.....	Churchill.....	3,965	6	37.5		63	7†	7	23	42	T.		T.	T.	0	24	1	5	ne.	Clay Simms.
Fernley.....	Lyon.....	4,200	38	38.6	- 0.9	67	6	7	30	49	0.12	- 0.25	0.12	0	1	22	8	0	...	U. S. Experiment Station.
Gardnerville.....	Douglas.....	4,830	11																Mrs. G. A. Steele.	
Geyser.....	Lincoln.....	7	33.6			65	1†	0	16†	53	T.		T.	0	0	13	16	1	s.	Wm. Dangberg.
Glenbrook.....	Douglas.....	2	41.8			66	8	10	11	42	0.60		0.40	6.0	2	20	2	8	c.	Mrs. J. F. Wambolt.
Golconda.....	Humboldt.....	4,697	32	35.6	- 4.9	58	1†	7	11	41	0.30	- 0.07	0.30	3.0	1	25	4	1	...	C. C. Henningsen.
Halleck.....	Elko.....	5,631	18	29.5	- 3.1	59	1†	8	27	51	0.53	+ 0.01	0.23	1.0	4	14	12	4	do.	Southern Pacific Co.
Jean.....	Clark.....	2,074	3	46.8		72	6	14	29†	45	0.00		0.00	0	0	27	2	1	sw.	Salt Lake Route.
Lahontan.....	Churchill.....	0	42.2			65	14	17	23	36	0.08		0.08	0	1	22	4	4	w.	U. S. Reclamation Service.
Lewers' Ranch.....	Washeo.....	5,500	23	40.3	- 3.3	65	2†	13	12	41	1.75	- 1.55	1.20	0	2	20	8	2	...	Ross Lewers.
Lovelocks.....	Humboldt.....	3,977	17	35.3	- 6.7	63	3	6	12†	47	0.00	- 0.20	0.00	0	0	15	12	3	s.	C. H. Allender.
Millett.....	Nye.....	3	33.4			68	24	- 3	23	68	0.10		0.10	0	1	21	5	4	s.	Fred J. Jones.
Mina.....	Mineral.....	4,600	4																Southern Pacific Co.	
Potts.....	Nye.....	6,990	18	30.5	- 4.3	54	15	0	12†	49	0.18	- 0.29	0.10	5.0	2	11	9	10	n.	Miss Mamie Potts.
Quinn River Ranch.....	Humboldt.....	4,850	9	39.5		71	6	8	30	45	0.42		0.35	0	3	18	2	10	sw.	E. J. Hyatt.
Rebel Creek.....	do.....	0																	F. M. Payne.	
Reno.....	Washeo.....	4,532	40	39.8	- 1.2	64	3	16	11	39	0.24	- 0.85	0.21	0.2	3	20	10	0	sw.	U. S. Weather Bureau.
Soda Lake.....	Churchill.....	4,534	4																U. S. Reclamation Service.	
Tecoma.....	Elko.....	4,812	33	31.6	- 2.4	62	3	- 4	29	43	0.11	- 0.31	0.10	1.0	2	15	5	12	ne.	Southern Pacific Co.
Tonopah.....	Nye.....	6,090	6	38.5		56	9	12	11	34	0.02		0.02	0.5	1	20	8	2	w.	U. S. Weather Bureau.
Wabuska.....	Lyon.....	4,347	8																Andrew Reid.	
Wells.....	Elko.....	5,631	32	29.4	- 4.2	52	6†	- 9	12	46	0.50	- 0.18	0.40	4.0	2	10	9	11	w.	Southern Pacific Co.
Winnemucca.....	Humboldt.....	4,432	32	35.6	- 1.9	63	3	6	30	48	0.29	- 0.45	0.13	1.5	5	13	5	12	sw.	U. S. Weather Bureau.

^{a, b, c, etc.}, indicate, respectively, 1, 2, 3, etc., days missing from the record.

**Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for November, 1911. District No. 10, Great Basin.*

TABLE 2.—*Daily precipitation for November, 1911. District No. 10—Continued.*

* Precipitation included in that of the next measurement.
† Separate dates of falls not recorded.

II Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for November, 1911. District No. 10, Great Basin.

Date.	Wyoming.				Idaho.				Utah.																			
	Border.	Evanston.			Weston.	Corinne.		Deseret.		Government Creek.		Josepa.		Marysville.		Meadowville.		Modena.		Henefer.		Parowan.		Provo.		Salt Lake City.		
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
1.	45	11	43	21	58	20	58	30	61	33	53	26	60	35	51	35	43	20	51	33	52	22	54	35	60	25	53	40
2.	46	6	47	10	50	14	49	23	56	18	49	20	56	20	56	18	42	12	54	22	54	11	57	27	65	18	51	34
3.	49	11	48	14	55	17	51	22	54	15	52	33	50	21	58	12	46	20	54	15	56	12	58	20	57	12	55	31
4.	45	22	46	22	45	29	47	30	80	19	56	31	54	28	60	15	45	20	80	20	56	21	59	24	57	21	51	38
5.	36	26	35	19	42	25	43	31	50	30	46	26	49	27	49	20	30	22	55	22	45	26	53	35	50	33	48	36
6.	30	10	40	28	50	30	48	38	61	25	52	36	79	43	58	22	46	31	60	31	50	27	62	29	55	34	50	38
7.	35	26	36	12	44	20	40	24	53	20	47	27	52	28	55	15	39	16	57	24	38	17	53	25	48	19	45	34
8.	34	23	32	23	39	27	43	29	50	22	43	28	48	30	50	30	41	28	53	26	41	26	52	27	43	23	42	35
9.	40	20	30	24	38	19	43	32	57	27	46	22	52	35	55	31	35	26	54	35	41	31	59	39	49	33	45	37
10.	34	2	38	25	45	23	48	27	58	40	58	35	56	25	61	40	35	22	50	30	48	28	55	37	57	30	57	24
11.	17	-12	25	-5	35	13	29	15	40	13	38	12	37	5	44	8	30	7	30	12	26	12	46	9	32	14	24	16
12.	25	-3	28	4	31	17	27	-4	25	-2	32	2	25	-8	8	34	3	30	0	33	1	35	4	29	13	33	21	
13.	44	-10	32	7	36	21	35	11	39	18	40	16	37	20	46	13	37	9	48	23	39	14	48	21	45	23	43	28
14.	28	27	38	12	40	27	44	28	49	12	47	24	48	19	55	18	40	28	54	19	52	17	49	23	55	25	49	32
15.	40	29	45	18	47	35	47	37	57	23	46	32	57	34	58	21	47	30	55	23	50	24	59	27	56	26	56	36
16.	35	24	40	27	38	29	47	30	49	32	45	27	54	32	57	36	37	25	43	25	44	27	48	25	50	29	36	37
17.	34	16	35	20	36	24	39	23	45	21	39	18	45	28	44	8	37	23	46	15	39	11	49	23	36	21	39	27
18.	36	29	35	22	43	31	45	26	51	19	47	23	51	24	49	14	39	27	50	17	49	10	30	22	50	23	50	32
19.	44	31	40	30	52	36	47	37	57	21	52	30	57	33	52	18	43	33	55	17	56	30	60	25	55	28	55	40
20.	43	33	50	29	53	26	55	23	56	20	55	25	58	20	58	19	56	22	61	26	57	23	59	23	59	23	56	36
21.	36	11	48	20	54	26	48	27	58	20	50	34	52	29	56	20	40	22	56	20	54	20	57	25	61	24	49	35
22.	33	10	35	16	42	22	40	27	58	18	39	16	47	25	47	24	35	19	41	20	42	17	45	23	44	19	39	29
23.	26	1	38	8	39	14	38	17	46	12	41	16	48	16	45	11	32	11	43	9	43	11	45	12	43	14	45	25
24.	29	2	40	11	43	15	41	19	46	12	41	16	41	16	50	10	34	14	46	12	49	17	44	14	42	26	45	26
25.	29	3	42	12	44	16	41	18	49	14	52	19	48	18	51	11	36	15	49	11	48	13	52	17	48	14	45	26
26.	30	6	35	24	43	28	40	29	45	18	40	24	44	24	41	14	35	25	50	17	40	21	44	13	41	21	40	32
27.	20	-4	24	2	32	15	33	20	34	20	38	4	39	22	30	14	27	11	34	13	31	2	40	16	38	20	34	21
28.	10	-14	20	-10	30	3	28	8	36	4	32	7	35	6	37	7	23	4	34	5	30	-9	37	10	31	6	33	19
29.	12	-12	32	-6	32	4	32	7	37	2	40	10	36	3	42	-2	28	3	35	-1	35	-7	43	6	38	5	35	16
30.	32	-13	38	5	40	8	35	11	44	5	43	14	40	9	47	3	35	7	44	4	43	-1	49	12	43	8	40	20
Mns.	*34.0	*10.3	36.9	14.6	41.7	20.7	42.2	24.2	49.4	18.3	45.4	21.9	48.9	22.7	49.2	16.9	37.2	19.3	48.4	18.1	44.5	10.3	51.0	21.7	48.2	20.3	44.6	20.4
	Oregon.				Nevada.																Winne- mucca.							
Date.	Burns.	Cherry Creek.		Columbia.		Eureka.		Fallon.		Halleck.		Jean.		Lovelock.		Millett.		Quinn River Ranch.		Reno.		Tecoma.		Tonopah.				
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
1.		53	29	52	33	55	24	59	26	59	8	64	41	59	36	57	20	65	25	59	32	58	22	48	32	60	27	
2.		52	29	54	29	60	21	57	22	59	15	67	48	60	24	58	14	67	24	62	24	58	18	51	37	61	16	
3.		55	22	56	29	61	22	59	23	67	38	63	20	61	11	65	25	64	25	62	19	52	37	63	15			
4.		53	25	58	28	57	26	62	22	54	10	71	34	61	19	60	13	60	33	62	28	54	21	55	39	59	25	
5.		49	22	57	28	52	26	62	21	47	37	70	37	58	19	62	12	59	20	63	27	53	22	53	34	55	18	
6.		55	40	59	32	62	28	54	17	72	38	61	28	60	25	71	33	57	20	56	38	59	33	55	36			
7.		51	25	61	33	52	32	63	34	48	30	71	34	60	30	59	25	57	43	50	39	52	38	55	36			
8.		45	31	54	30	56	21	56	32	45	25	69	42	58	34	50	30	53	44	48	33	50	39	49	37			
9.		48	35	57	33	48	34	57	42	47	36	63	41	68	31	55	42	49	38	50	39	48	33	49	36			
10.		42	30	56	48	52	26	44	8	63	32	58	28	49	19	59	20	54	27	53	24	50	24	50	16			
11.		32	11	44	17	34	14	46	15	23	-5	58	32	34	12	34	15	46	18	38	16	25	5	24	12	30		
12.		43	1	43	4	47	9	45	3	47	9	45	30	43	6	40	2	32	15	49	18	32	0	37	19			
13.		45	34	42	28	41	31	59	28	42	24	51	24	58	18	51	25	55	36	47	35	53	23	57	29			
14.		51	29	55	20	52	20	63	28	52	20	64	27	58	16	57	7	60	24	59	23	55	20					
15.		57	32	51	27	57	33	61	24	50	26	68	28	49	19	59	20	54</td										